## UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy	fication: PB	2012 Navy							DATE: February 2011	7011	
APPROPRIATION/BUDGET ACTIVITY  1319: Research, Development, Test & Evaluation, Navy	TY & Evaluation	ı, Navy		R-1 ITEM N PE 0602236	R-1 ITEM NOMENCLATURE PE 0602236N: Warfighter Su	R-1 ITEM NOMENCLATURE PE 0602236N: Warfighter Sustainment Applied		PROJECT 9999: Cong	PROJECT 9999: Congressional Adds	ids	
The supplied is according				1700							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
9999: Congressional Adds	16.257	1	1	1	i		r		1	_	16.257
A. Mission Description and Budget Item Justification Congressional Interest Items not included in other Projects	t Item Justii cluded in oth	<u>fication</u> ner Projects.				27					*
B. Accomplishments/Planned Programs (\$ in Millions)	grams (\$ in	Millions)					FY 2010	0 FY 2011			
Congressional Add: Advanced Composite Maritime Manufacturing	nposite Mari	time Manufa	acturing				1.593	ω	•		
FY 2010 Accomplishments: This effort addressed characterization and modeling, process innovation and tooling, design and testing of advance composites integrated into a virtual simulation environment with a focus on Prepreg Tape Placement process and Autoclave Prepreg processing.	ffort address e composite and Autock	ed characte is integrated ave Prepreg	rization and l into a virtua processing.	modeling, pr	ocess innov environment	ation and with a focus					
Congressional Add: Assistive Technologies for Injured Service Members	nologies for	Injured Sen	vice Member	S.			0.797		•		
FY 2010 Accomplishments: This effort advanced noninvasive technologies to compensate for sensory (vision, balance) and mobility deficits.	ffort advance	d noninvasi	ve technolog	jies to comp	ensate for se	ensory (visio					18 7.
Congressional Add: Biosensors for Defense Applications	Defense Ap	plications					0.797		•		
FY 2010 Accomplishments: This effort investigated emerging environmental factors in inflammatory and cellular stress responses. The objective of this effort was to measure and characterize the inflammatory and cell stress response of relevant cell systems to key emergent environmental chemical conditions with the goal of defining relevant mechanisms.	ffort investigative of this ef	ated emergii fort was to r mergent env	ng environm neasure and vironmental o	ental factors characterize chemical cor	in inflamma the inflamn ditions with	tory and natory and co the goal of	≗		*		
Congressional Add: Composite Materials Enhancements through Polymer Science R&D	terials Enha	ncements th	ırough Polyn	ner Science	R&D		5.099		1		
FY 2010 Accomplishments: This effort investigated composite matrix technology for lighter weight, stronger, stiffer, higher toughness materials providing for more accurate property predictions, and accurate service life prediction.	ffort investigation oviding for m	ated compos	site matrix te te property p	chnology for redictions, a	lighter weig nd accurate	ht, stronger, service life				5	
Congressional Add: Managing and Extending DoD Asset Lifecycles	Extending D	oD Asset Li	ifecycles				1.593	93			
FY 2010 Accomplishments: This effort developed technologies to; extend the useful life of facilities and equipment, yield a reduction in maintenance manpower, and contribute to DoD's knowledge base to improve mission capability rates while decreasing life cycle costs by providing an examination and evaluation of corrosion-resistant hybrid coatings for facilities and aircraft as well as investigation and development of concepts for decentralized netcentric decision support tools.	fort developmenance mar sing life cycl sing lifes ar r facilities ar support took	ed technolog spower, and e costs by p ed aircraft as s.	gies to; exter contribute to croviding an o s well as inve	nd the useful DoD's knov examination estigation an	life of facilitiveledge base and evaluation developmed	ies and to improve ion of ant of concep	ots				
Congressional Add: Nanotechnology for Anti-Reverse Engineering	yy for Anti-R	everse Engi	neering				2.390		•		